

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

- 1               1. (Currently amended): A backup processing method for backing up data to  
2 be used by a data-processing computer system, the method comprising the steps of:  
3               selecting resources in a usable state from a plurality of resources necessary for  
4 backing up data, the data to be used by the data-processing computer system;  
5               selecting switches in a usable state from a plurality of switches necessary for  
6 forming routes among the selected resources;  
7               determining which of the selected resources and selected routes are secure; and  
8               securing a one group of the selected resources and selected routes as a first path  
9               for backup and another one group of the selected resources and selected routes as a second path;  
10              executing backup processing by using secured resources and routes-the first path  
11              and a backup instruction command set having a plurality of backup commands, each backup  
12              command backing up a different portion of the data, every portion of the data having a  
13              corresponding backup command, the backup processing including executing one or more of the  
14              backup commands;when the resources and routes necessary for backing up data to be used in  
15              data processing by the computer system are secured, to thereby form a plurality of backup  
16              subsystems by the selection.  
17              detecting if a problem occurs in the first path based on a result of execution of one  
18              of the backup commands in the backup instruction command set;  
19              changing from the first path to the second path if a problem is detected; and  
20              continuing execution of the backup processing by using the second path and  
21              executing backup commands in the backup instruction command sets that have not yet been  
22              executed.

1           2. (Currently amended): A backup processing method according to claim 1,  
2 wherein backup processing is executed by using the ~~plurality of resources and routes so secured~~  
3 ~~first or the second path~~, and when the backup processing has been ~~successfully fully~~ executed by  
4 ~~at least one subsystem one or both of the paths~~, regarding the backup processing as successful.

3-5. (Canceled)

1           6. (Original): A backup processing method according to claim 2, further  
2 including a step of storing information relating to the backup processing of the backed-up data.

1           7. (Original): A backup processing method according to claim 2, further  
2 including a step of storing information relating to whether the backup processing of the backed-  
3 up data was successfully executed.

1           8. (Original): A backup processing method according to claim 7, wherein  
2 data stored relating to the successful execution of the backup processing is used to determine if  
3 the data can be restored.

9-15. (Canceled)

1           16. (New): A backup processing method according to claim 1 further  
2 comprising terminating execution of the backup processing if the second path is not secured.

1           17. (New): A computer managing a system which includes a plurality of  
2 resources, comprising:

3                 a processing unit; and  
4                 a network interface connectable to the plurality of resources via a network,  
5                 wherein the processing unit is operable to:

6                 select resources in a usable state from the plurality of resources necessary  
7                 for backing up data stored in a storage system;

8                 determine which of the selected resources are secure;

9           secure a first group of the selected resources as a first path and a second  
10          group of the selected resources as a second path for backup;  
11           initiate first backup processing via the first path by issuing a backup  
12          instruction command set via the network interface to the first group of resources, the  
13          backup instruction command set having a plurality of backup commands, each backup  
14          command effective to backup a portion of the data stored in the storage system, wherein  
15          one or more of the backup commands are executed to backup one or more portions of the  
16          data via the first path;  
17           detect if a problem occurs in the first path based on a result of execution of  
18          one of the backup commands;  
19           initiate a change from the first path to the second path if the problem is  
20          detected; and  
21           initiate second backup processing via the second path by issuing a  
22          remaining portion of the backup instruction command set via the network interface to the  
23          second group of resources, the remaining portion of the backup instruction command set  
24          including those backup commands which had not been previously executed.

1           18. (New): A computer according to claim 17, wherein the processing unit  
2          terminates execution of the backup processing if the second path is not secured.

1           19. (New): A computer according to claim 18, wherein backup processing is  
2          executed by using the first path or the second path, and if the backup processing has completely  
3          executed using either or both of the first path or the second path, then regarding the backup  
4          processing as successful.

1           20. (New): A computer according to claim 19 further comprising a memory,  
2           wherein the processing unit stores information relating to whether the backup  
3          processing of the backed-up data was successfully executed,  
4           wherein the processing unit indicates to execute data restore based on the  
5          information.

1           21. (New): A computer according to claim 17 further comprising a memory,  
2           wherein the data that is backed up is referred to as backed-up data and can be  
3           stored in a first storage resource in the first path or in a second storage resource in the second  
4           path,

5                         wherein the processing unit stores backup information relating to the backup  
6           processing of the backed-up data into the memory, the backup information indicating which  
7           portions of the backed-up data are stored in the first storage resource and which portions of the  
8           backed-up data are stored in the second storage resource,

9                         wherein the processing unit initiates restoring of the backed-up data based on the  
10          backup information, including performing steps of:

11                         accessing the backup information in connection with a first portion of the  
12          backed-up data and determining whether the first portion is stored on the first storage  
13          resource or on the second storage resource;

14                         accessing either the first storage resource or on the second storage  
15          resource to obtain the first portion; and

16                         repeating the above steps for additional portions of the backed-up data, thereby  
17          restoring the data from the backed-up data.

1           22. (New): A system comprising:

2           a storage system;

3           a plurality of library systems;

4           a plurality of copy devices;

5           a plurality of switches which are connectable among the storage system, the  
6          plurality of library systems and the plurality of copy devices; and

7                         a management computer connectable to the plurality of switches, the storage  
8          system, the plurality of library systems and the plurality of copy devices via a network,

9                         wherein the management computer is operative to:

10                         select library systems in a usable state from the plurality of library systems  
11          necessary for backing up data stored in the storage system;

12               select switches in a usable state from the plurality of switches necessary  
13        for forming routes from the storage system to the selected library systems, thereby  
14        securing a first group of selected library systems and selected switches as a first routes  
15        for backup and securing a second group of selected library systems and selected switches  
16        as a second route;

17               select a first copy device in a usable state from the plurality of copy  
18        devices for the first routes and a second copy device in a usable state from the plurality of  
19        copy devices for the second routes; and

20               initiate execution backup processing via the first routes by issuing backup  
21        instruction command set including a plurality of backup commands, each backup  
22        command indicating to transfer part of the data stored in the storage system to the copy  
23        device, when the first and second routes are secured,

24               wherein the first copy device sends portions of data from the storage system to a  
25        library system included in the first route in accordance with one or more of the backup  
26        commands, and notifies the management computer if an error in the first route is detected,

27               wherein the management computer initiates execution backup processing via the  
28        second path by issuing a remaining portion of the backup instruction command set to the second  
29        copy device if the management computer receives an error notification from the first copy  
30        device,

31               wherein the second copy device sends data from the storage system to a library  
32        system included in the second route in accordance with the remaining portion of the backup  
33        instruction command set.

1               23. (New): A system according to claim 22, wherein the management  
2        computer terminates execution of the backup processing if the second route is not secured.

1               24. (New): A system according to claim 23, wherein backup processing is  
2        executed by using the first route or the second route, and when the backup processing has been  
3        successfully executed by at least one route, regarding the backup processing as successful.

1           25. (New): A system according to claim 24,  
2           wherein the management computer stores information relating to whether the  
3        backup processing of the backed-up data was successfully executed,  
4           wherein the management computer selects the first route based on the  
5        information, indicates the copy device to execute data restore from a library system included in  
6        the first route to the storage system via the first route.